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	<b>ES COMPLEAT OAT Concentrate (EG - Ethylene Glycol)</b>	Issue date : 21/11/2023
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture  
Trade name : ES COMPLEAT OAT Concentrate  
(EG - Ethylene Glycol)  
Product code : CC36070EDJ (5L jar); CC36070EDP (20L pail); CC36070EDD (208L drum);  
CC36070EDT (1000L tote); CC36070ED (bulk)  
Product group : Trade product  
Document no. : LT36359EU

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use  
Use of the substance/mixture : Coolant  
Antifreeze

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cummins Filtration  
Entwistle Road  
Daventry,  
Northants, NN11 8NG - The United Kingdom  
T +44 (0)1788 853600

Fleetguard  
Zone Industrielle du Grand Guelen  
29556 Quimper Cedex 9 - France  
T +33 (0) 2 98 76 49 49  
[fleetguard.support.emea@cummins.com](mailto:fleetguard.support.emea@cummins.com)

Fleetguard  
Catenbergstraat 1  
2840 Rumst - Belgium  
T +32 3 456 3000  
[fleetguard.support.emea@cummins.com](mailto:fleetguard.support.emea@cummins.com)

Fleetguard  
Waterfall Commercial Park,  
Pretoria Main Road and Beatty Street,  
Woodmead, Johannesburg - South Africa  
T +27 10 285 0200  
[fleetguard.support.emea@cummins.com](mailto:fleetguard.support.emea@cummins.com)

### 1.4. Emergency telephone number

Emergency number : +44 (0) 1235 239670 (Carechem24)  
Only available during office hours.

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Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302  
Eye Irrit. 2 H319  
STOT RE 2 H373

Full text of H- and EUH-statements: see section 16

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word :

Warning

Contains :

ethanediol; ethylene glycol

Hazard statements (CLP) :

H302 - Harmful if swallowed.  
H319 - Causes serious eye irritation.  
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary statements (CLP) :

P260 - Do not breathe fume, mist, spray, vapours.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective clothing/eye protection/face protection.  
P314 - Get medical advice/attention if you feel unwell.  
P501 - Dispose of contents and container to an approved waste disposal plant.

### 2.3. Other hazards

Other hazards :

Results of PBT and vPvB assessment. Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanediol; ethylene glycol substance with a Community workplace exposure limit	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index) 603-027-00-1	89,91 – 92,65	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
disodium sebacate	(CAS-No.) 17265-14-4 (EC-No.) 241-300-3	2,69 – 3,28	Eye Irrit. 2, H319
sodium benzoate	(CAS-No.) 532-32-1 (EC-No.) 208-534-8	2,12 – 2,6	Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Show this safety data sheet to the doctor in attendance. Inhalation of high vapour concentrations can cause CNS-depression and narcosis.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. Give oxygen or artificial respiration if necessary. Call a physician if irritation develops or persists.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth out with water. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: Inhalation of aerosol may cause irritation to the upper respiratory tract. Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing. Causes damage to organs. Liver and kidney injuries may occur. Pulmonary irritation. Headache. Nausea. Vomiting.
Skin contact	: May cause slight irritation to the skin. May be harmful if absorbed through skin. Repeated exposure may cause skin dryness or cracking. Symptoms similar to those listed under ingestion .
Eyes contact	: Causes serious eye irritation. The following symptoms may occur: erythema (redness). Lachrymation. Pain.

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Ingestion : Harmful if swallowed. Drowsiness. Weakness. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis. prolonged exposure : Bladder / Kidney injury may occur. The following symptoms may occur: Vomiting. Unconsciousness. Nausea . Abdominal pain.

Chronic symptoms : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. Prompt action is critical. CNS depression !.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.

Unsuitable extinguishing media : Strong water jet .

#### **5.2. Special hazards arising from the substance or mixture**

Specific hazards : Combustible liquid. Vapours are heavier than air and may spread along floors.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Toxic and corrosive fumes are released. Formaldehyde.

#### **5.3. Advice for firefighters**

Precautionary measures fire : Use water spray or fog for cooling exposed containers.

Firefighting instructions : Evacuate area. Use extinguishing media appropriate for surrounding fire.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

Other information : Prevent fire fighting water from entering the environment.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **6.1.1. For non-emergency personnel**

For non-emergency personnel : Stay upwind/keep distance from source. Provide adequate ventilation. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### **6.1.2. For emergency responders**

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Notify authorities if liquid enters sewers or public waters.

#### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Provide adequate ventilation. Stop leak if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

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#### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Use only in well ventilated areas. Do not ingest. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8 . After use replace the closing cap immediately. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials.
- Hygiene measures : Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Separate working clothes from town clothes. Remove contaminated clothing and shoes.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Keep locked up. Good housekeeping - e.g. inspection procedures will ensure that there are no leaks to soil.
- Incompatible substances or mixtures : Strong oxidizing agents. Strong acids. Strong bases. alkali metals. Reducing agent.
- Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Special rules on packaging : Keep in properly labelled containers. Containers which are opened should be properly resealed and kept upright to prevent leakage. After use replace the closing cap immediately.
- Packaging materials : Keep only in the original container.

#### 7.3. Specific end use(s)

Coolant. Antifreeze.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

ethanediol; ethylene glycol (107-21-1)		
EU	IOEL TWA	52 mg/m <sup>3</sup>
EU	IOEL TWA [ppm]	20 ppm
EU	IOEL STEL	104 mg/m <sup>3</sup>
EU	IOEL STEL [ppm]	40 ppm
EU	Remark	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	26 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) [ppm]	10 ppm
Austria	MAK (OEL STEL)	52 mg/m <sup>3</sup>
Austria	MAK (OEL STEL) [ppm]	20 ppm
Belgium	OEL TWA	52 mg/m <sup>3</sup> (aerosol)
Belgium	OEL TWA	20 ppm (aerosol)



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**ethanediol; ethylene glycol (107-21-1)**

Belgium	OEL STEL	104 mg/m <sup>3</sup> (aerosol)
Belgium	OEL STEL	40 ppm (aerosol)
Bulgaria	OEL TWA	52 mg/m <sup>3</sup>
Bulgaria	OEL TWA	20 ppm
Bulgaria	OEL STEL	104 mg/m <sup>3</sup>
Bulgaria	OEL STEL	40 ppm
Croatia	GVI (OEL TWA) [1]	52 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [2]	20 ppm
Croatia	KGVI (OEL STEL)	104 mg/m <sup>3</sup>
Croatia	KGVI (OEL STEL) [ppm]	40 ppm
Cyprus	OEL TWA	52 mg/m <sup>3</sup>
Cyprus	OEL TWA	20 ppm
Cyprus	OEL STEL	104 mg/m <sup>3</sup>
Cyprus	OEL STEL	40 ppm
Czech Republic	PEL (OEL TWA)	50 mg/m <sup>3</sup>
Denmark	OEL TWA [1]	26 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> (atomized)
Denmark	OEL TWA [2]	10 ppm
Denmark	OEL STEL	104 mg/m <sup>3</sup> 20 mg/m <sup>3</sup> (atomized)
Denmark	OEL STEL	40 ppm
Estonia	OEL TWA	52 mg/m <sup>3</sup> (total concentration of aerosol and vapor)
Estonia	OEL TWA	20 ppm (total concentration of aerosol and vapor)
Estonia	OEL STEL	104 mg/m <sup>3</sup> (total concentration of aerosol and vapor)
Estonia	OEL STEL	40 ppm (total concentration of aerosol and vapor)
Finland	HTP (OEL TWA) [1]	50 mg/m <sup>3</sup>
Finland	HTP (OEL TWA) [2]	20 ppm
Finland	HTP (OEL STEL)	100 mg/m <sup>3</sup>
Finland	HTP (OEL STEL) [ppm]	40 ppm
France	VME (OEL TWA)	52 mg/m <sup>3</sup> (indicative limit-vapor)
France	VME (OEL TWA) [ppm]	20 ppm (indicative limit-vapor)
France	VLE (OEL C/STEL)	104 mg/m <sup>3</sup> (indicative limit-vapor)
France	VLE (OEL C/STEL) [ppm]	40 ppm (indicative limit-vapor)
Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	26 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	OEL TWA	52 mg/m <sup>3</sup>
Gibraltar	OEL TWA	20 ppm



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**ethanediol; ethylene glycol (107-21-1)**

Gibraltar	OEL STEL	104 mg/m <sup>3</sup>
Gibraltar	OEL STEL	40 ppm
Greece	OEL TWA	125 mg/m <sup>3</sup> (vapor)
Greece	OEL TWA	50 ppm (vapor)
Greece	OEL STEL	125 mg/m <sup>3</sup> (vapor)
Greece	OEL STEL	50 ppm (vapor)
Hungary	AK (OEL TWA)	52 mg/m <sup>3</sup>
Hungary	CK (OEL STEL)	104 mg/m <sup>3</sup>
Ireland	OEL TWA [1]	52 mg/m <sup>3</sup>
Ireland	OEL TWA [2]	20 ppm
Ireland	OEL STEL	104 mg/m <sup>3</sup>
Ireland	OEL STEL	40 ppm
Italy	OEL TWA	52 mg/m <sup>3</sup>
Italy	OEL TWA	20 ppm
Italy	OEL STEL	104 mg/m <sup>3</sup>
Italy	OEL STEL	40 ppm
Latvia	OEL TWA	52 mg/m <sup>3</sup>
Latvia	OEL TWA	20 ppm
Lithuania	IPRV (OEL TWA)	25 mg/m <sup>3</sup> (aerosol and vapor)
Lithuania	IPRV (OEL TWA) [ppm]	10 ppm (aerosol and vapor)
Lithuania	TPRV (OEL STEL)	50 mg/m <sup>3</sup> (aerosol and vapor)
Lithuania	TPRV (OEL STEL) [ppm]	20 ppm (aerosol and vapor)
Luxembourg	OEL TWA	52 mg/m <sup>3</sup>
Luxembourg	OEL TWA	20 ppm
Luxembourg	OEL STEL	104 mg/m <sup>3</sup>
Luxembourg	OEL STEL	40 ppm
Malta	OEL TWA	52 mg/m <sup>3</sup>
Malta	OEL TWA	20 ppm
Malta	OEL STEL	104 mg/m <sup>3</sup>
Malta	OEL STEL	40 ppm
Netherlands	TGG-8u (OEL TWA)	52 mg/m <sup>3</sup> (fume) 10 mg/m <sup>3</sup> (droplets)
Netherlands	TGG-15min (OEL STEL)	104 mg/m <sup>3</sup> (fume)
Netherlands	TGG-15min (OEL STEL) [ppm]	40 ppm (fume)
Poland	NDS (OEL TWA)	15 mg/m <sup>3</sup>
Poland	NDSch (OEL STEL)	50 mg/m <sup>3</sup>
Portugal	OEL TWA	52 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA	20 ppm (indicative limit value)
Portugal	OEL STEL	104 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL STEL	40 ppm (indicative limit value)
Portugal	OEL C	100 mg/m <sup>3</sup> (aerosol only)



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**ethanediol; ethylene glycol (107-21-1)**

Romania	OEL TWA	52 mg/m <sup>3</sup>
Romania	OEL TWA	20 ppm
Romania	OEL STEL	104 mg/m <sup>3</sup>
Romania	OEL STEL	40 ppm
Slovakia	NPHV (OEL TWA) [1]	52 mg/m <sup>3</sup>
Slovakia	NPHV (OEL TWA) [2]	20 ppm
Slovakia	NPHV (OEL C)	104 mg/m <sup>3</sup>
Slovenia	OEL TWA	52 mg/m <sup>3</sup>
Slovenia	OEL TWA	20 ppm
Slovenia	OEL STEL	104 mg/m <sup>3</sup>
Slovenia	OEL STEL	40 ppm
Spain	VLA-ED (OEL TWA) [1]	52 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	20 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	104 mg/m <sup>3</sup>
Spain	VLA-EC (OEL STEL) [ppm]	40 ppm
Sweden	NGV (OEL TWA)	25 mg/m <sup>3</sup> (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	NGV (OEL TWA) [ppm]	10 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	KTV (OEL STEL)	104 mg/m <sup>3</sup> (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	KTV (OEL STEL) [ppm]	40 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup> (particulates) 52 mg/m <sup>3</sup> (vapour)
United Kingdom	WEL TWA (OEL TWA) [2]	20 ppm (vapour)
United Kingdom	WEL STEL (OEL STEL)	104 mg/m <sup>3</sup> (vapour) 30 mg/m <sup>3</sup> (calculated-particulate)
United Kingdom	WEL STEL (OEL STEL) [ppm]	40 ppm (vapour)
Norway	Grenseverdi (OEL TWA) [1]	52 mg/m <sup>3</sup> (total sum of gas and particulate matter (aerosol) of the substance)
Norway	Grenseverdi (OEL TWA) [2]	20 ppm (total sum of gas and particulate matter (aerosol) of the substance)
Norway	Korttidsverdi (OEL STEL)	104 mg/m <sup>3</sup> (total sum of gas and particulate matter (aerosol) of the substance)
Norway	Korttidsverdi (OEL STEL) [ppm]	40 ppm (total sum of gas and particulate matter (aerosol) of the substance)
Switzerland	MAK (OEL TWA) [1]	26 mg/m <sup>3</sup> (aerosol, vapour)
Switzerland	MAK (OEL TWA) [2]	10 ppm (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	52 mg/m <sup>3</sup> (aerosol, vapour)
Switzerland	KZGW (OEL STEL) [ppm]	20 ppm (aerosol, vapour)





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**ethanediol; ethylene glycol (107-21-1)**

Australia	OES TWA [1]	10 mg/m <sup>3</sup> (particulate) 52 mg/m <sup>3</sup> (vapour)
Australia	OES TWA [2]	20 ppm (vapour)
Australia	OES STEL	104 mg/m <sup>3</sup> (vapour)
Australia	OES STEL [ppm]	40 ppm (vapour)
Canada (Quebec)	Plafond (OEL C)	127 mg/m <sup>3</sup> (mist and vapour)
Canada (Quebec)	Plafond (OEL C)	50 ppm (mist and vapour)
USA - ACGIH	ACGIH OEL TWA [ppm]	25 ppm (vapor fraction)
USA - ACGIH	ACGIH OEL STEL	10 mg/m <sup>3</sup> (inhalable particulate matter, aerosol only)
USA - ACGIH	ACGIH OEL STEL [ppm]	50 ppm (vapor fraction)

**sodium benzoate (532-32-1)**

Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	10 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Slovenia	OEL TWA	10 mg/m <sup>3</sup> (inhalable fraction)
Slovenia	OEL STEL	20 mg/m <sup>3</sup> (inhalable fraction)
USA - ACGIH	ACGIH OEL TWA	2,5 mg/m <sup>3</sup> (inhalable particulate matter)

**8.2. Exposure controls**

- Engineering measure(s) : Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to prevent/limit releases, dispersion and exposure : See also section 7 .
- Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hand protection : Protective gloves complying with EN 374. Impervious gloves : Butyl caoutchouc (butyl rubber). NBR (Nitrile rubber) . Neoprene . Breakthrough time : >8h. Thickness of the glove material: >0,3mm. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
- Eye protection : tightly fitting safety goggles. Safety glasses. (EN 166)
- Body protection : Wear chemical resistant apron. Wear work clothes with long sleeves.
- Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136) (EN 136). Half-face mask (DIN EN 140) (EN 140). Filter type: A/P (EN 141). Self-contained breathing apparatus (EN 133) .
- Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.
- Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Red.
Odour	: Not available
Odour threshold	: No data available
pH	: 8,9 – 9
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: -38,44 °C
Initial boiling point and boiling range	: 179 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Not applicable
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: 1,118 – 1,148 (H <sub>2</sub> O=1)
Solubility	: Miscible with : Water.
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

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### 9.2.2. Other safety characteristics

VOC content : No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Combustible. Reference to other sections: 10.4 & 10.5.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See Section 7 for information on safe handling.

### 10.5. Incompatible materials

Strong oxidizing agents . Strong acids . Strong bases . alkali metals . Reducing agent . See Section 7 for information on safe handling.

### 10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Carbon oxides. Formaldehyde . Reference to other sections 5.2.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity : Harmful if swallowed.

ATE CLP (oral)	539,665 mg/kg bodyweight
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<b>ethanediol; ethylene glycol (107-21-1)</b>	
LD50/oral/rat	4700 mg/kg (Source: NLM_CIP)
LD50/dermal/rat	10600 mg/kg (Source: JAPAN_GHS)
LC50/inhalation/4h/rat	> 2,5 mg/l (Exposure time: 6 h Source: ECHA_API)

<b>sodium benzoate (532-32-1)</b>	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8,9 – 9
Serious eye damage/irritation	: Causes serious eye irritation. (Based on available data, the classification criteria are not met) pH: 8,9 – 9
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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ES COMPLEAT OAT Concentrate (EG - Ethylene Glycol)	
Kinematic viscosity	No data available

Other information : Symptoms related to the physical, chemical and toxicological characteristics. Reference to other sections 4.2.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### 11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, Reference to other sections 4.2

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : Not classified (CLP).

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### ethanediol; ethylene glycol (107-21-1)

LC50 - Fish [1]	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
LC50 - Fish [2]	14 – 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
EC50 - Crustacea [1]	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	6500 – 13000 mg/l (Species: Pseudokirchneriella subcapitata)

#### sodium benzoate (532-32-1)

LC50 - Fish [1]	> 1000 (420 – 558) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	< 650 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and degradability

ES COMPLEAT OAT Concentrate (EG - Ethylene Glycol)	
Persistence and degradability	No data available.

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### **12.3. Bioaccumulative potential**

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Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.

<b>ethanediol; ethylene glycol (107-21-1)</b>	
Partition coefficient n-octanol/water	-1,36

<b>disodium sebacate (17265-14-4)</b>	
Partition coefficient n-octanol/water	-4,9 (at 20 °C (at pH 7.8)

<b>sodium benzoate (532-32-1)</b>	
BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water	-2,13

### **12.4. Mobility in soil**

<b>ES COMPLEAT OAT Concentrate (EG - Ethylene Glycol)</b>	
Ecology - soil	This information is not available.

### **12.5. Results of PBT and vPvB assessment**

<b>ES COMPLEAT OAT Concentrate (EG - Ethylene Glycol)</b>	
Results of PBT assessment	Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

### **12.6. Endocrine disrupting properties**

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### **12.7. Other adverse effects**

Additional information : No information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

Additional information : Delivery to an approved waste disposal company. In accordance with local and national regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. The following Waste Codes are only suggestions:  
07 02 04\* - other organic solvents, washing liquids and mother liquors /  
150110 - packaging containing residues of or contaminated by dangerous substances .

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable				

#### 14.6. Special precautions for user

Special precautions for user : Not applicable

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

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**- Rail transport**

Not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

Code: IBC : Not applicable.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU-Regulations**

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	ES COMPLEAT OAT Concentrate (EG - Ethylene Glycol) ; ethanediol; ethylene glycol ; disodium sebacate
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Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

VOC content : No data available

**15.1.2. National regulations**

**France**

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

**Germany**

Regulatory reference : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

German storage class (LGK) : LGK 10 - Combustible liquids

Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

TA Luft (Technical Instructions on Air Quality Control) : 5.2.5 Organic Substances

**Netherlands**

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

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SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

**Denmark**

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

**15.2. Chemical safety assessment**

Not applicable

**SECTION 16: Other information**

Indication of changes:

1.3	Company	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]		
2.2	Hazard statements (CLP)		
2.2	Precautionary statements (CLP)		
4.1	Eyes contact	Modified	
4.2	Skin contact		
4.3	Indication of any immediate medical attention and special treatment needed	Modified	
5.2	Specific hazards	Modified	
5.3	Protection during firefighting	Modified	
6.1	For emergency responders	Modified	
6.2	Environmental precautions	Modified	
7.2	Heat and ignition sources	Added	
7.2	Special rules on packaging	Added	
7.3	Specific end use(s)	Added	
7.3	Specific end use(s)	Added	
8.2	Thermal hazard protection	Added	
8.2	Environmental exposure controls	Added	

Abbreviations and acronyms:

ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
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	CSR = CSR = Chemical Safety Report
	EC50 = Median Effective Concentration
	LD50 = Median lethal dose
	LC50 = Median lethal concentration
	NA = Not applicable
	N.O.S. = Not Otherwise Specified
	DNEL = DNEL = Derived No Effect Level
	PNEC = Predicted No Effect Concentration
	TLV = Threshold limits
	TWA = time weighted average
	STEL = Short term exposure limit
	persistent, bioaccumulating and toxic (PBT).
	vPvB = very persistent and very bioaccumulating
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the : ECHA (European Chemicals Agency). Manufacturer/Supplier. LOLI. datasheet

Training advice : Manipulations are to be done only by qualified and authorised persons. Training staff on good practice.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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